

The Tempe Way



MISSION:

To make Tempe the best place to live, work and play.

VALUES:

People... Integrity... Respect... Openness... Creativity... Quality...

WATER RESOURCES HYDROLOGIST

Purpose:

To actively support and uphold the City's stated mission and values. To manage water resource and technical/hydrologic programs for the Water Utilities Department. The Water Resources Hydrologist has program or project management authority for a wide variety of water supply issues.

The duties of the Water Resources Hydrologist include direct management and oversight of programs or projects in the areas of water resource planning, water rights analysis, groundwater hydrology, production well site analysis and selection, groundwater recharge, reclaimed water reuse, intergovernmental negotiations and contract administration, regulatory compliance and permitting activities, litigation technical support, water accounting, and special projects.

Supervision Received and Exercised:

Receives general supervision from the Water Resource Administrator. Responsible for program management for water resources and technical/hydrologic projects.

Examples of Duties:

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Duties may include, but are not limited to, the following:

- Prepare Assured Water Supply Designation reports and water resource master plans, City of Tempe water supply policies, Rio Salado Project water supply planning, new development and redevelopment water supply planning.
- Conduct historical and legal research on water rights issues, provide technical assistance in water rights adjudication proceedings and settlement negotiations, create a water rights category mapping system with GIS, manage water rights administration and accounting.

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Water Resources Hydrologist (continued)

- Conduct studies of groundwater contaminant sites, design and initiate pump tests and aquifer tests, conduct groundwater modeling and contaminant transport modeling, prepare technical/hydrologic reports for the Water Management Division, City Attorney's Office and other City departments, maintain hydrologic records database, supervise collection of groundwater level measurements and other groundwater data, perform groundwater/surface water interaction studies, perform surface water hydrologic assessments, such as watershed modeling, when necessary, lead role in contract administration and management of work by outside consultants on hydrologic issues.
- Manage all groundwater recharge facilities and projects for the City {Ken McDonald GC Recharge Facility, GRUSP}, design and initiate recharge studies and pilot tests, oversight and monitoring of recharge project operations, management of other City recharge programs, such as in-lieu or indirect recharge projects and groundwater savings facilities {NMIDD and SRP GSFs, AWBA}, maintain recharge records database, prepare technical reports and regulatory reports for City-owned recharge facilities, lead role for contract administration and management of work by outside consultants on groundwater recharge projects.
- Determine best sites for new production wells based on aquifer conditions and groundwater quality, examine water distribution system issues for new well sites, secure all necessary permits and regulatory approvals, approve new well site selection based on production rate and water quality criteria, examine opportunities to improve well production and water quality through well rehabilitation and modifications to existing wells, conduct packer tests and aquifer zone isolation tests on existing wells, lead role in contract administration and management of work by outside consultants on well drilling, well equipping and well modification projects.
- Work with staff and management from water supply agencies on contracts to secure, transport or store water supplies, develop procedures to administer contracts. Work with State and Federal government regulatory agencies on regulatory compliance, to secure all permits necessary for specific projects, and to file all required reports in a timely manner. Oversee monitoring and sampling requirements per contract, permit or regulations.
- Develop procedures for accurate tracking and accounting of all water use in the Tempe Water Service Area, prepare water accounting summary reports on a monthly and annual basis, develop accounting procedures and reports for new water uses, such as water use account reports for the Rio Salado Project, provide supervision to staff responsible for water accounting data collection and reports, develop improved water accounting database program. Prepare and submit the City's annual water use reports to ADWR, SRP, CAWCD, and the CAP Board. Participate in intergovernmental and interagency negotiations for contracts, agreements, and permits regarding water use / water rights issues.

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Water Resources Hydrologist (continued)

- Provide technical support and water rights analyses to the City Attorney's Office for water rights adjudication proceedings and for other water supply cases. Provide hydrologic technical support to the City Attorney's Office and other City departments for groundwater contamination cases and other water supply issues. Provide testimony as expert witness, if necessary, work jointly with the City Attorney's Office on contract administration and management of work by outside consultants, and outside legal counsel, for water rights issues, water settlements and groundwater contamination case.
- Manage water supply portfolio for the Town Lake and other features of the Rio Salado Project, assist Town Lake Project Manager in contract administration and oversight of lake operations and maintenance contracts, conduct hydrologic analyses and groundwater models of the lake seepage containment and recovery well systems, develop metering requirements for measurement of lake inflows and outflows, measure and track meteorological data, develop and produce water accounting statements and reports, analyze water supply requirements and develop water use policy, monitor testing and performance of lake operations and water deliver systems.
- Participate in state legislative efforts and agency rule making processes for issues relating to water rights, water resources, and groundwater quality.
- Supervise the Water Resource Technician.

Experience and Training Guidelines:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Experience:

Four years of responsible professional level experience in the following fields: water resource management, water supply regulatory management, hydrology or geohydrology experience.

Training:

Equivalent to a Bachelor's degree from an accredited college or university in water resources, watershed management, hydrology, geology, engineering, environmental planning, natural resource management, or closely related field. A Master's degree in a related field is highly desirable.

Licenses/Certifications:

Professional certification as a geologist or engineer is desirable.

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Water Resources Hydrologist (continued)

This position is included in the City's classified service, pursuant to City of Tempe Personnel Rules and Regulations, Rule 1, Section 104.

This position is unclassified, which means the employee or the City can terminate the employment relationship at any time, for any or no reason, with or without cause or notice.

Job Code: 0392

Salary Range: 38

Compensation Plan: P40 / Regular

FLSA: Exempt